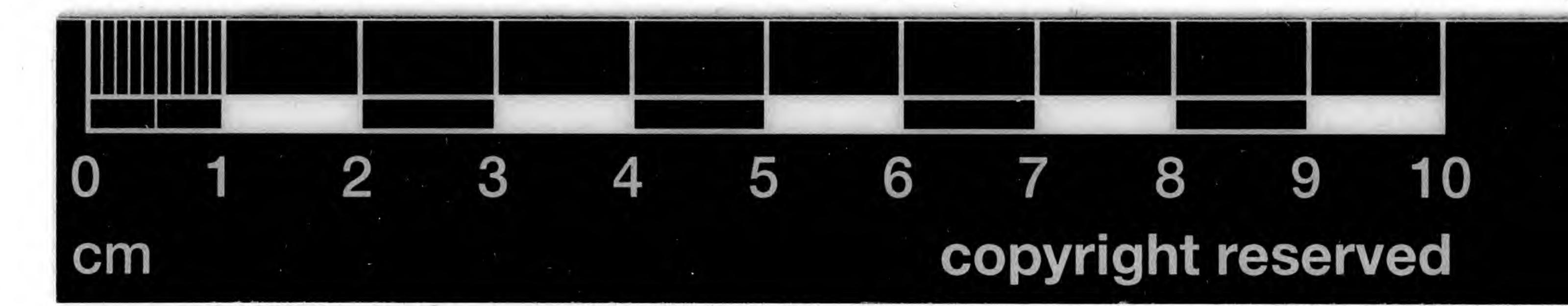


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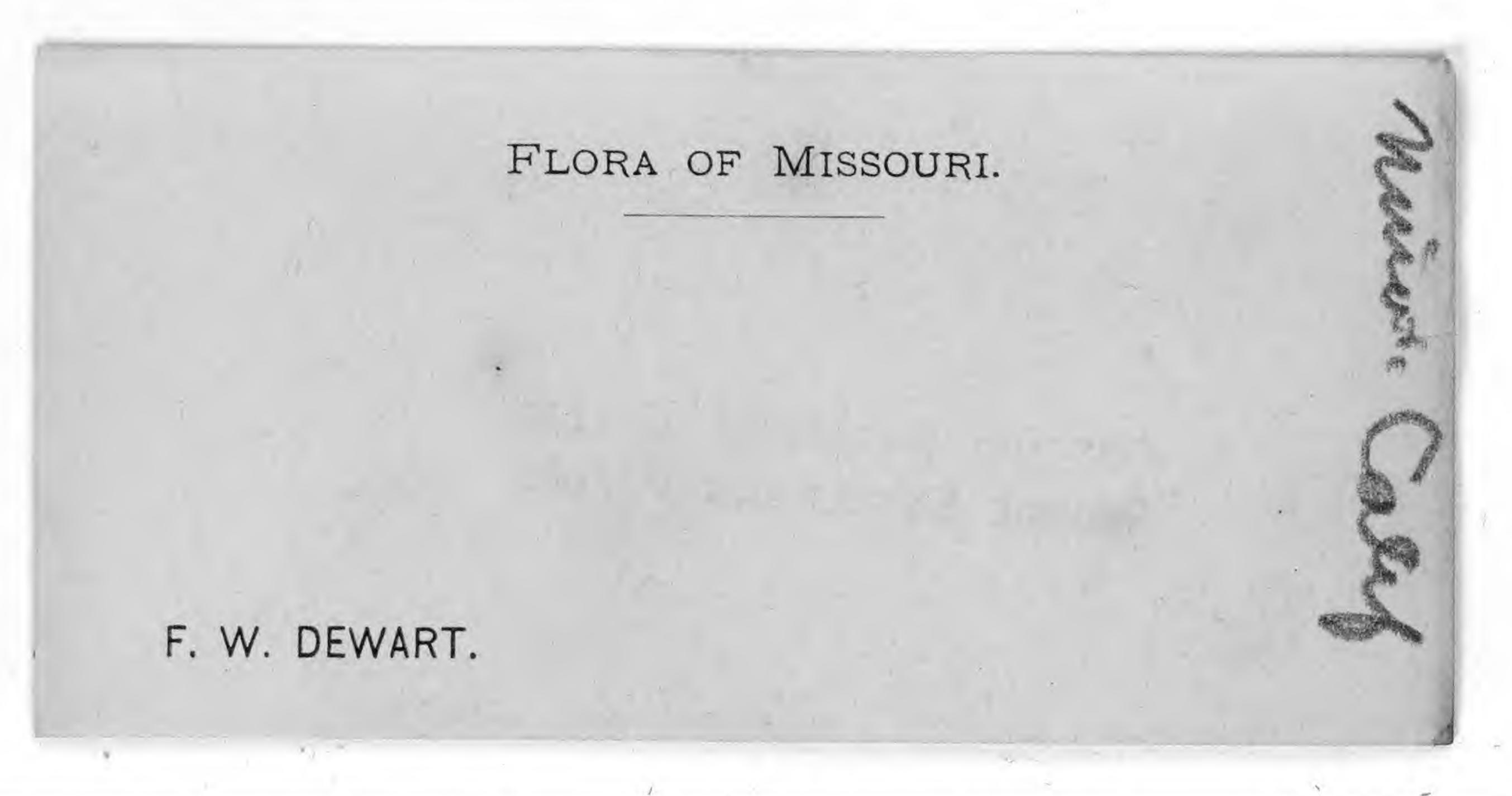


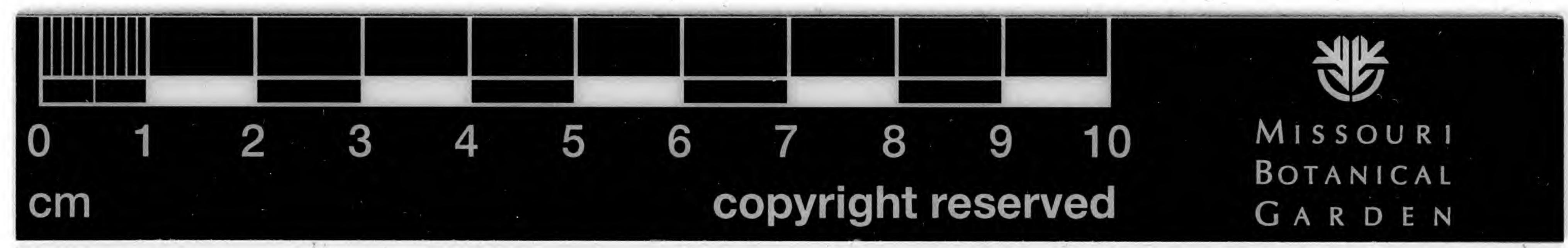
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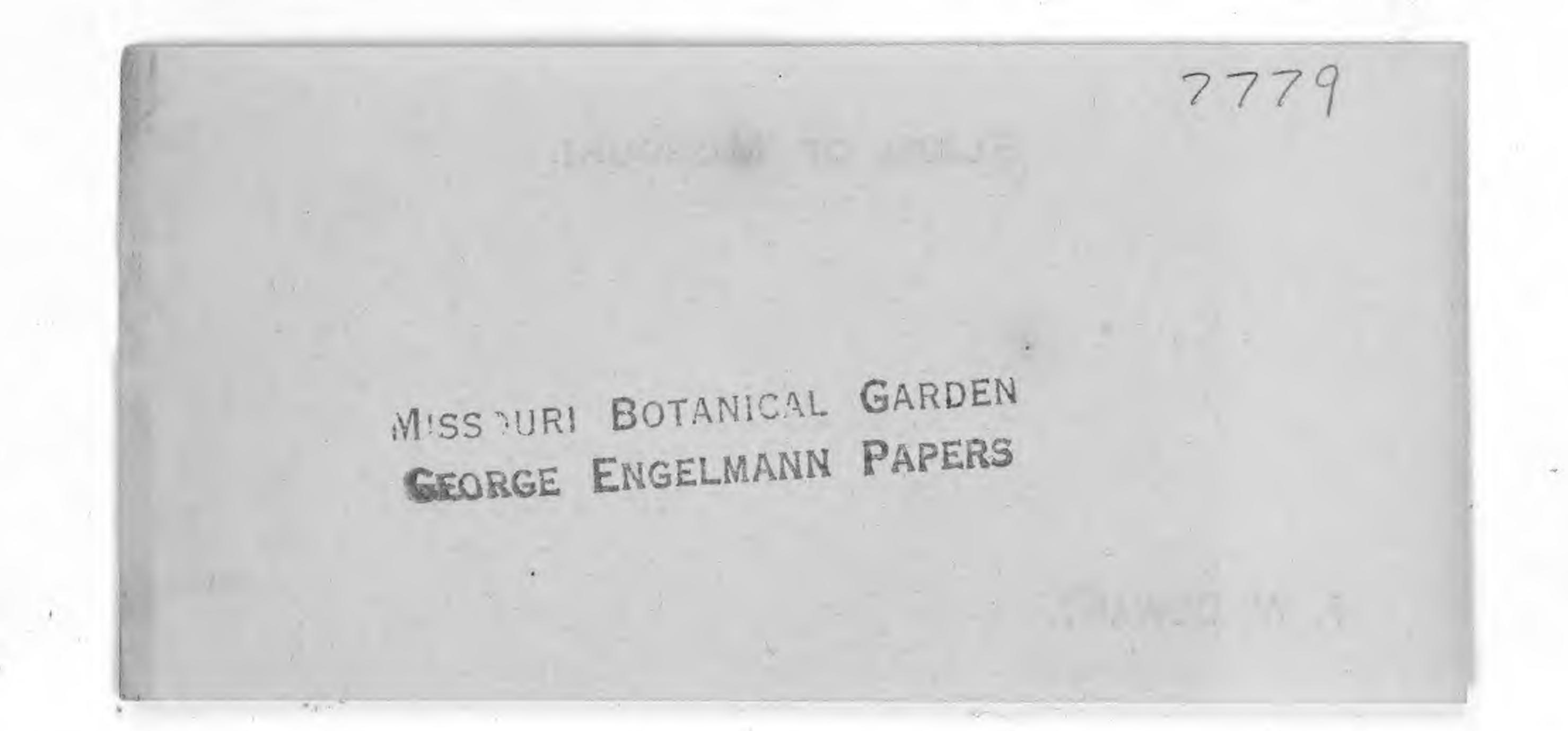
tion of light. They exhibit double refraction quite plans of light. They exhibit double refraction quite plans of west of Greenwich, west of south of Salt Lake, in as' range of mountains, on Capt. Simpson's return traicumstances prevented me from obtaining more than crystals, which are now deposited in the collection Smithsonian Institute; a few others are also in the horced night marches with nearly worn out animals,

The mountains of the former Territory of Can promise a rich yield to the mineralogist. We know already of gold and silver ores in the east, west and south part of that district; of copper and lead ores in the south, and I have discovered the latter also in the centre of it; of specular iron ores and native sulphur in the Rocky Mountains and near Little Salt Lake; of rock salt in the mountains south-east of Utah Lake; of native alum near Salt Lake; of various other salts in the deserts; and of silicates, composing the granites, porphyries, diorites, trachytes, and lavas, nearly over the whole area.

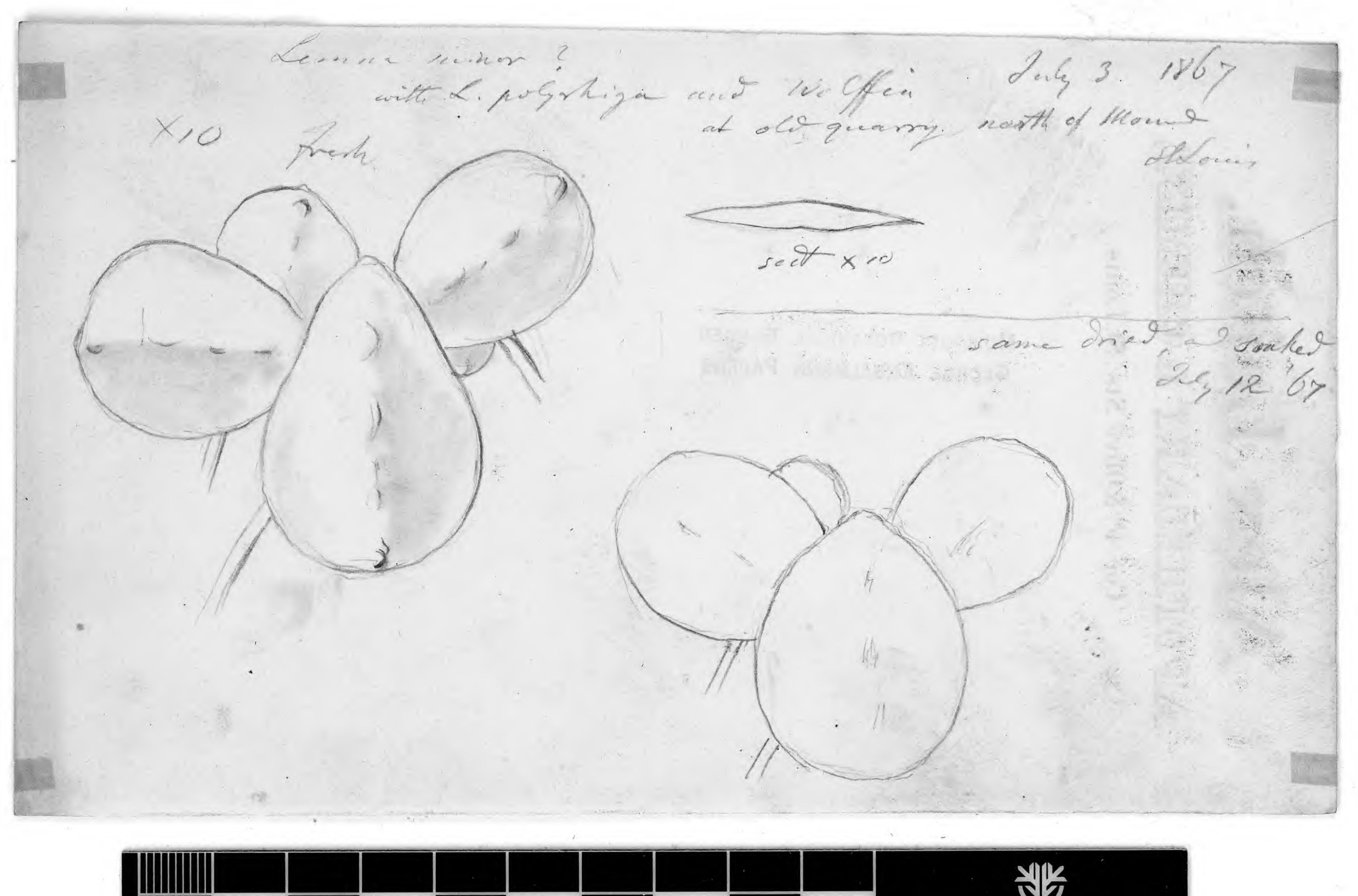






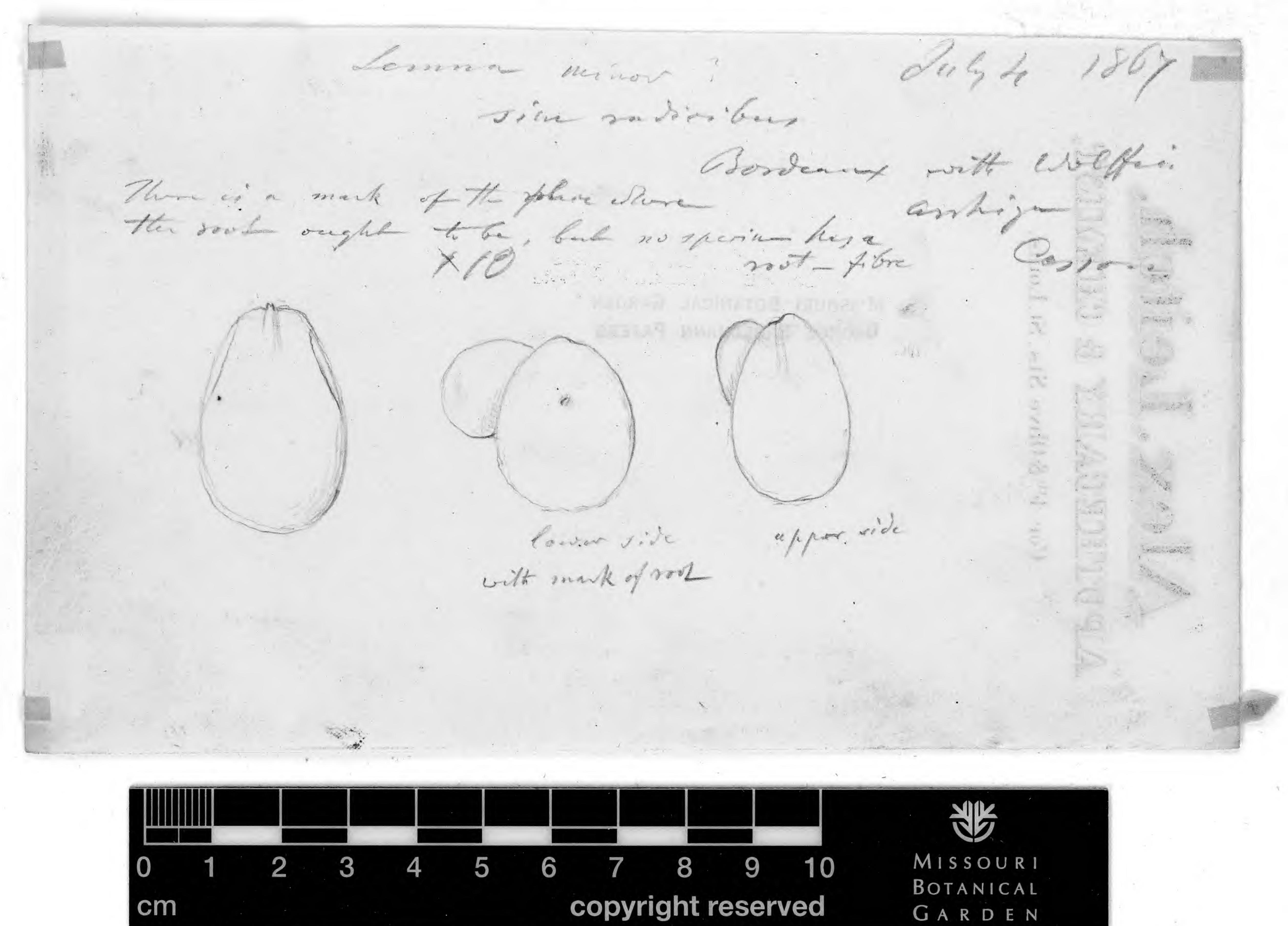




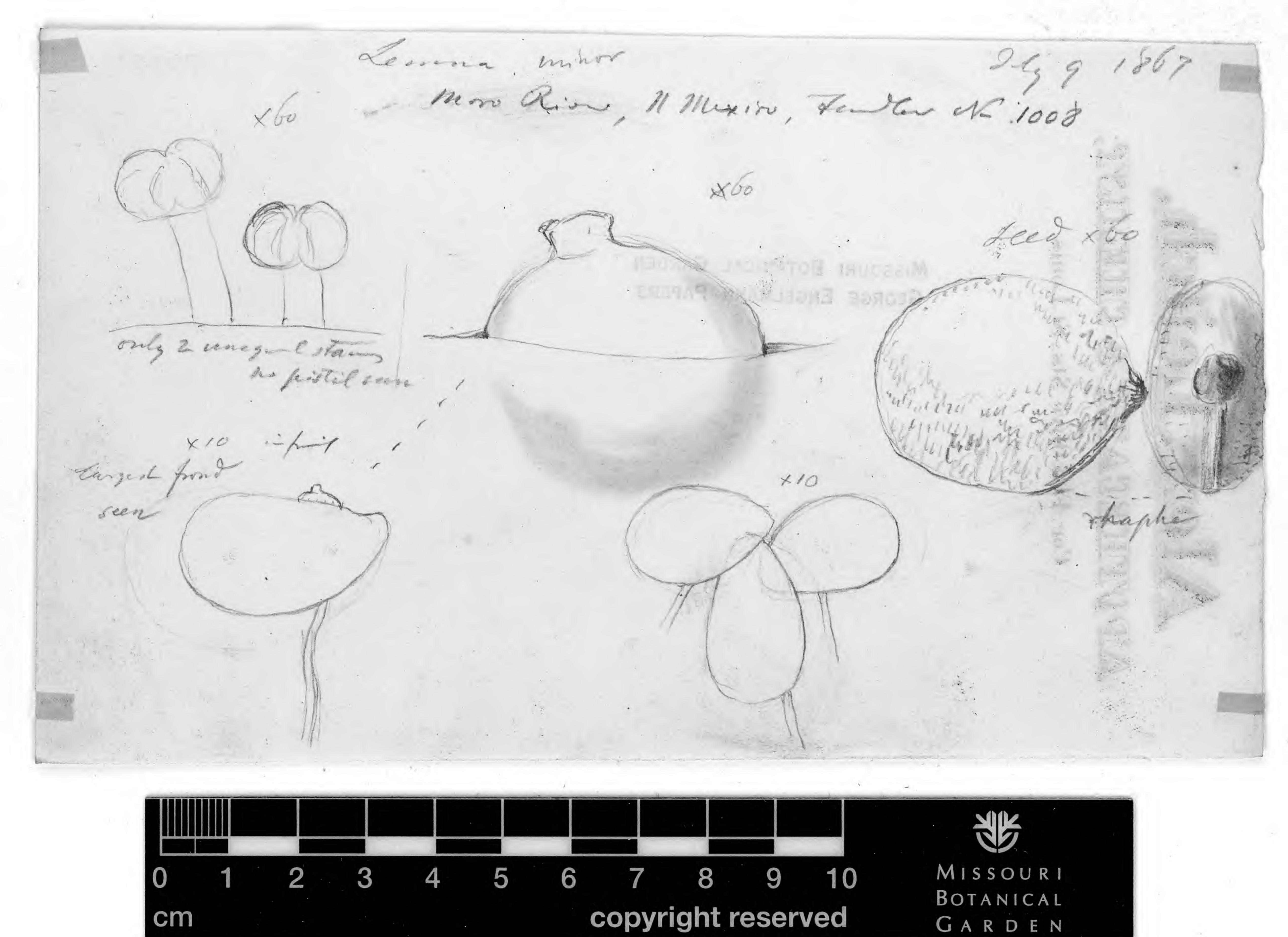




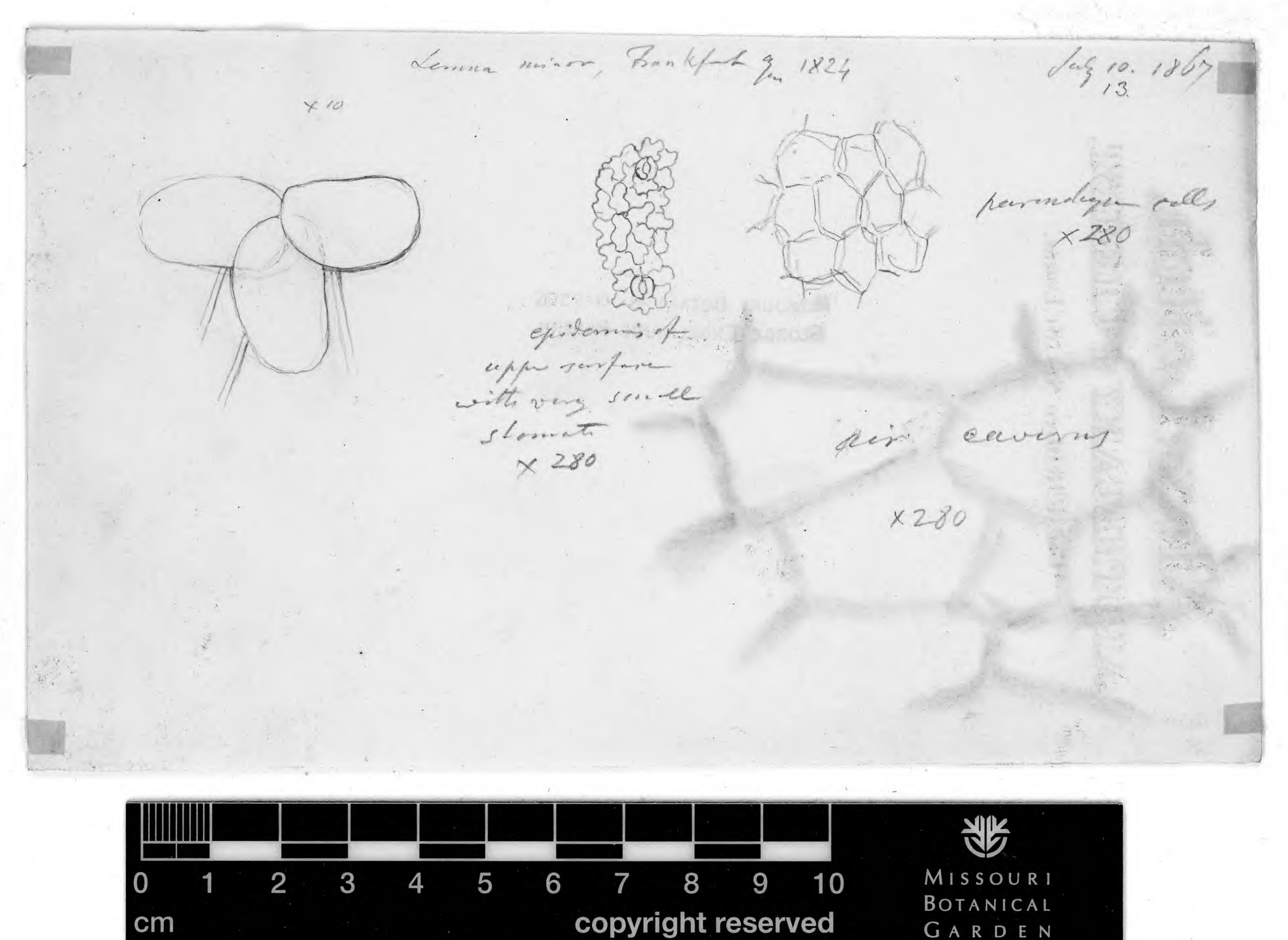






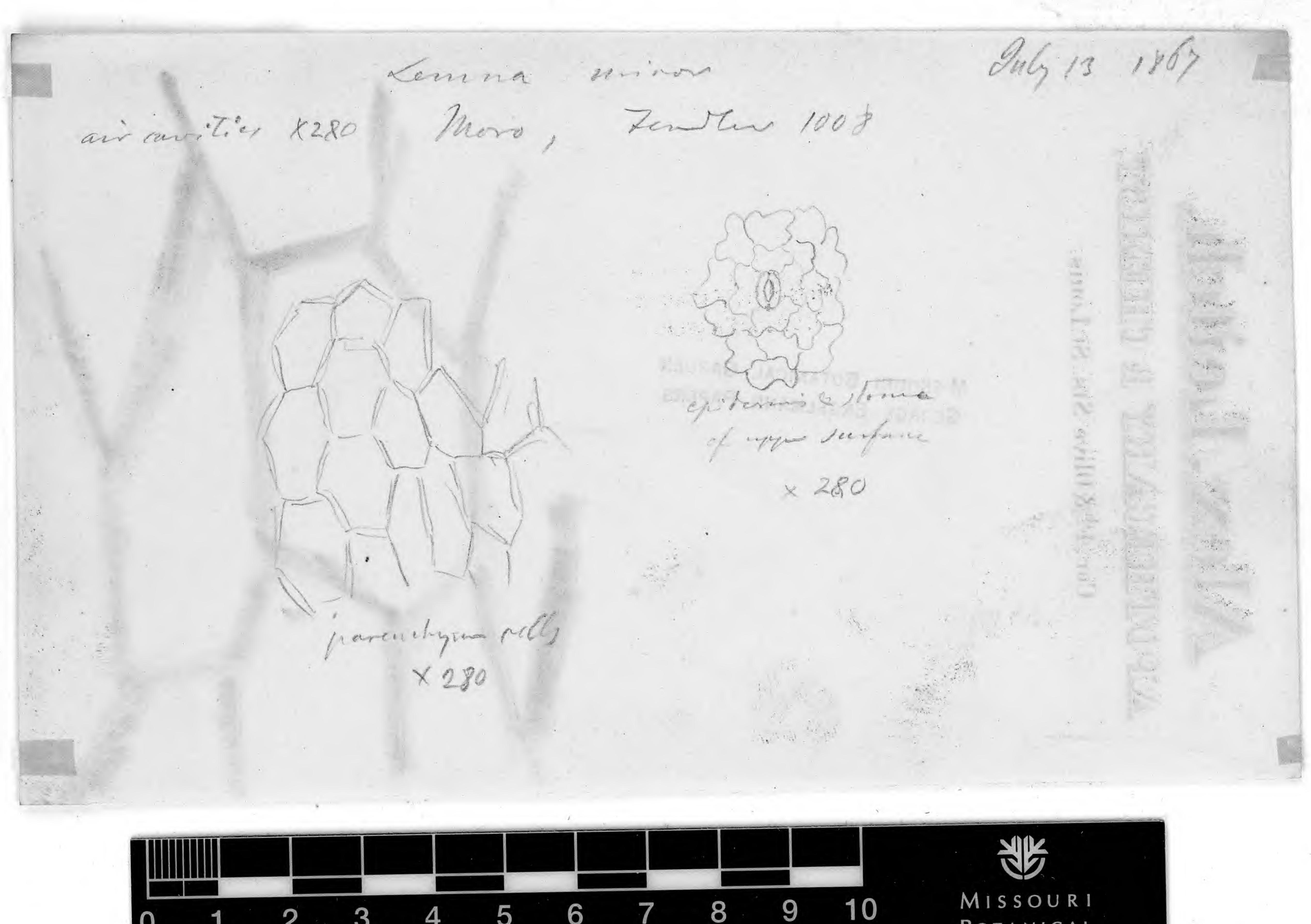






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EMARKS.

The monthly mean of atmospheric electricity in 1862 w not quite so regular as that in 1861. While in 1861 an m

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cember; the second with a mean electricity by the mon-March, April, May and October; and the third with twest electricity by the months of June, July, August aptember.

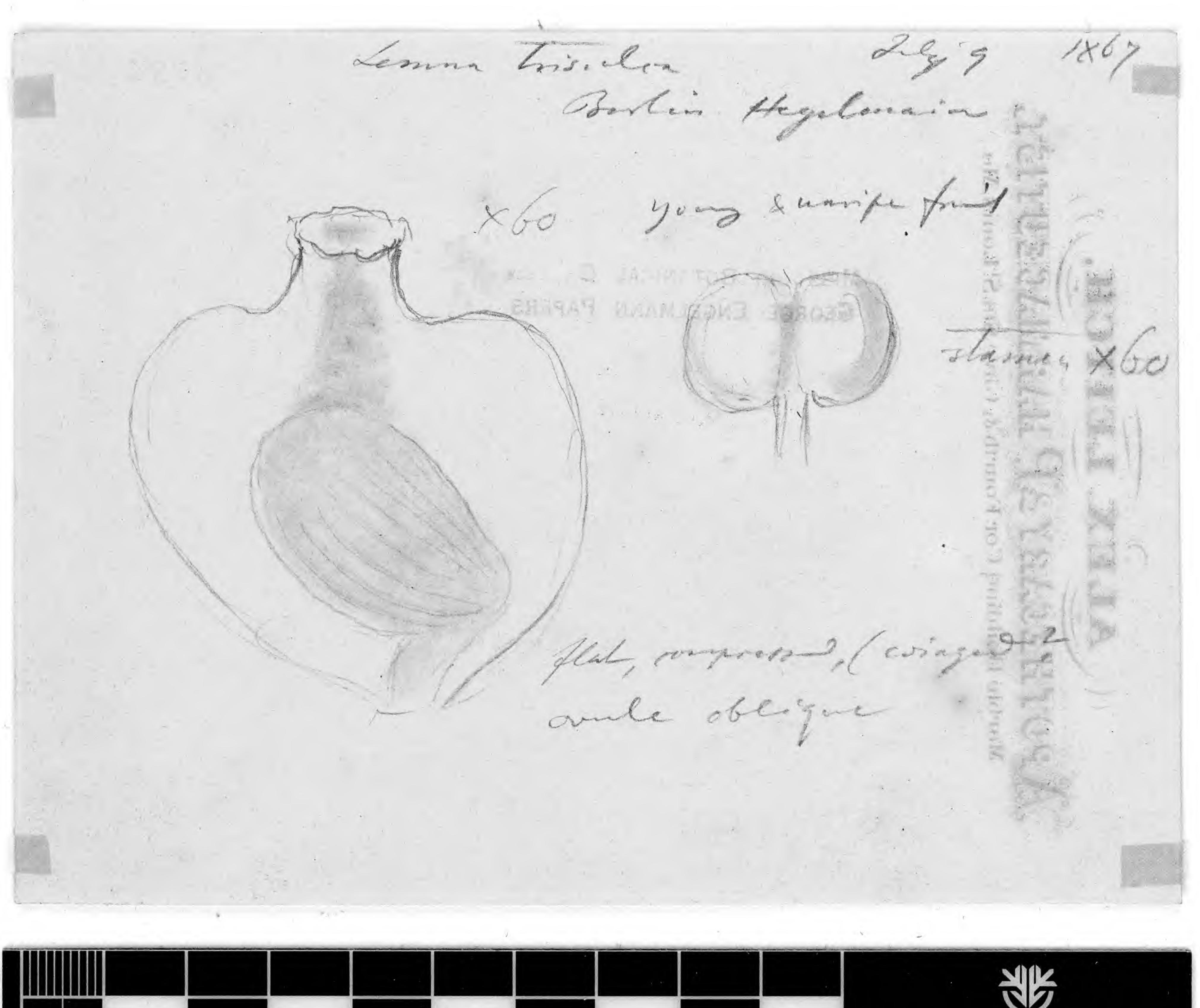
le aggregate monthly mean

he first group in 1861 is 52.9—in 1862, 5 he second "," 33.5

Thus in 1861 the third group prevailed, and in 1862 the t and second. But these differences are so well balanced oughout the year, that the mean of the whole year in 1862 is exactly the same, namely, 8.4. Such an ntity in the yearly result, even to decimals, is of course to be expected every year; but it seems to prove, at st, that the yearly mean of electricity is as constant as t of temperature, of relative humidity, and of atmospheric ssure.

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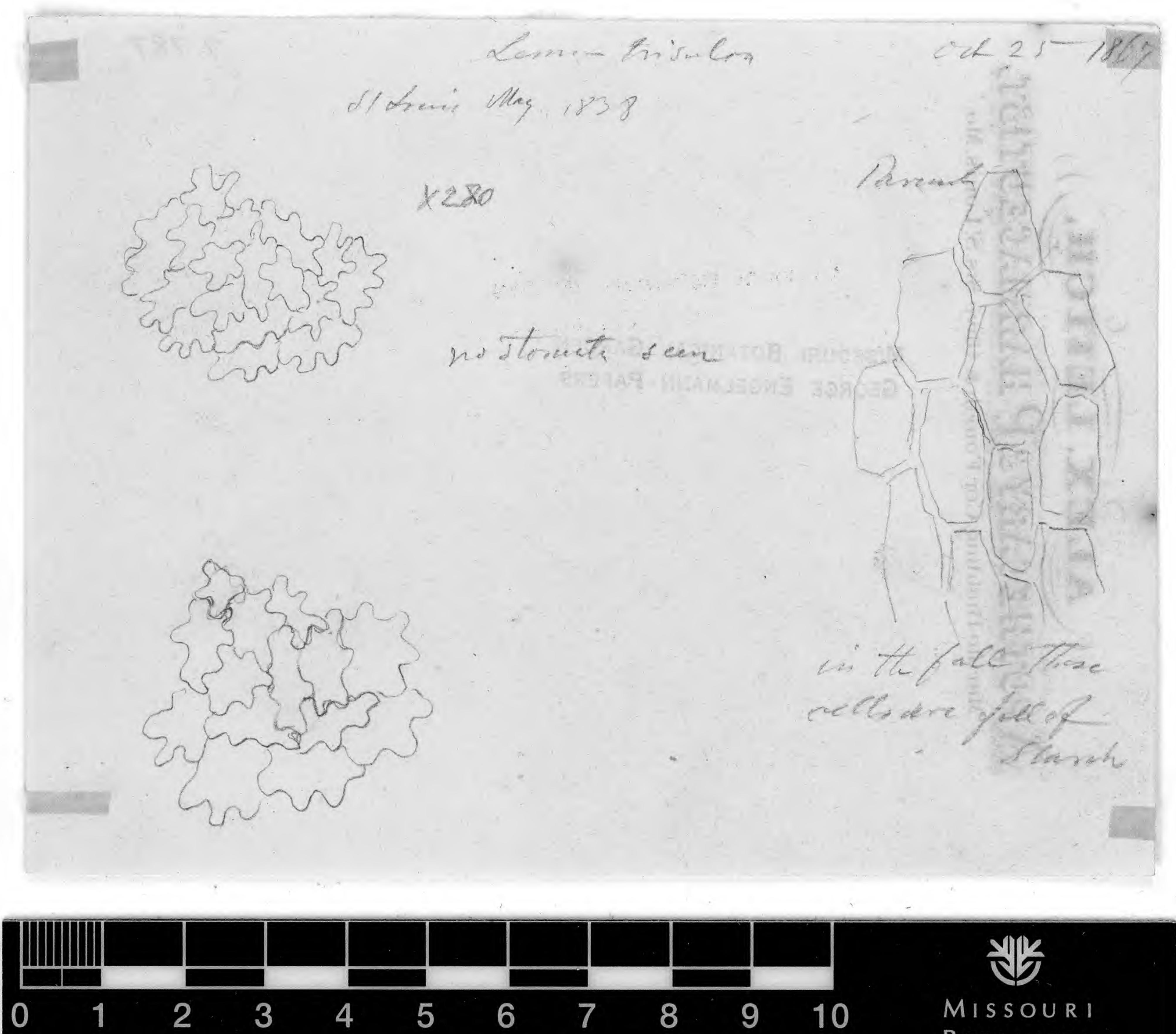




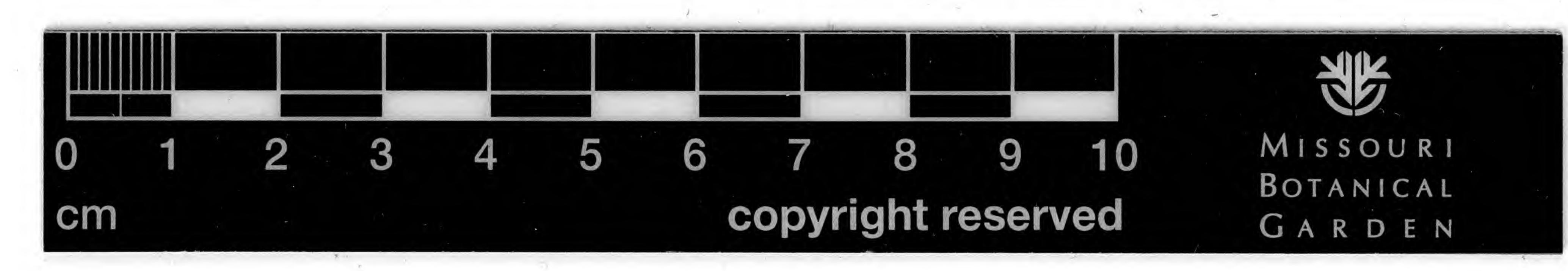


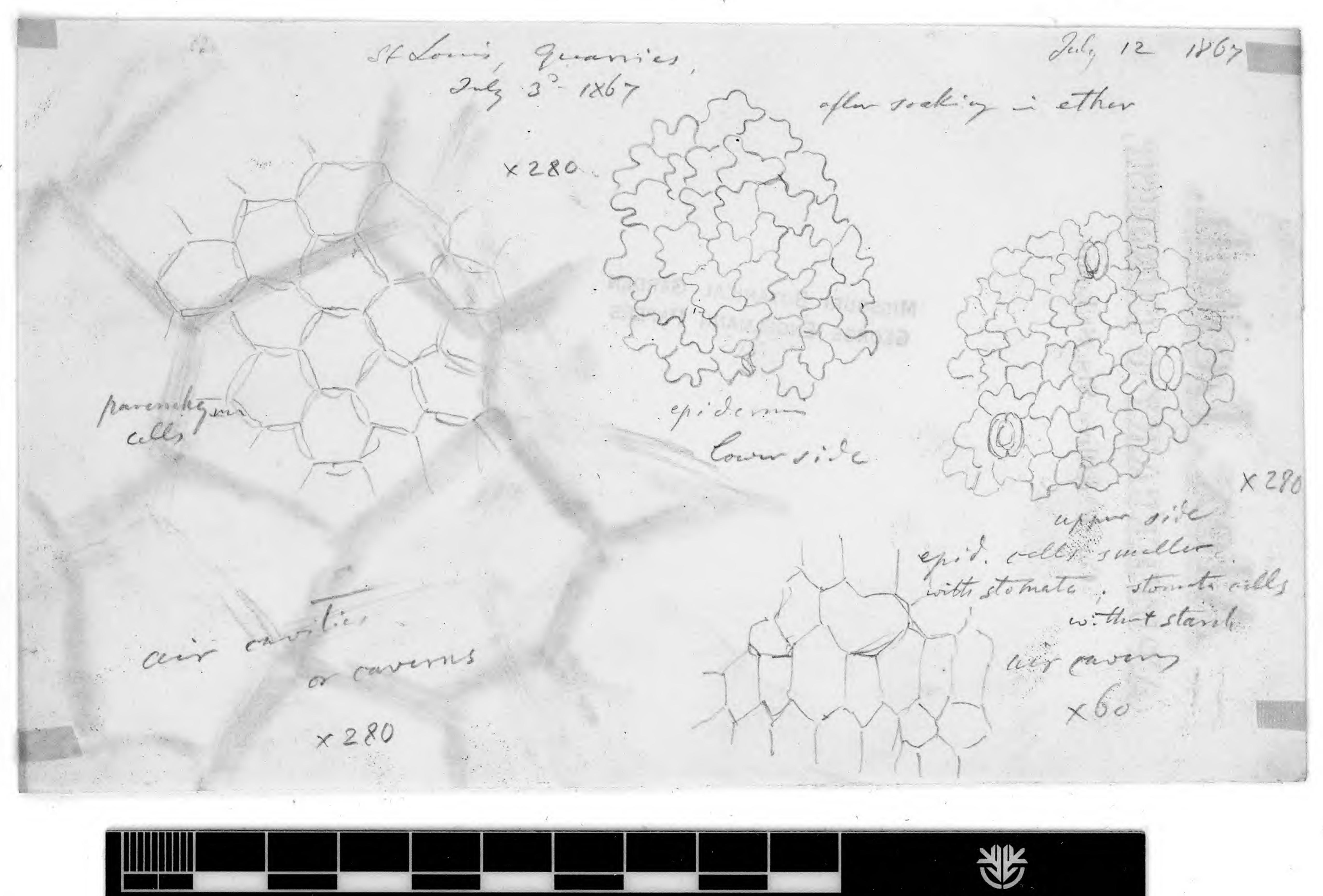
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Room 16, Johnston Building, CONCONNATO, O. Waynesville, Warren leo, Q Oct-26tt, '83, Do, Geglemann St. Louis. Dear Sir- Offmi Rund Venna brisulca is need for which I wish to Thank you and to day That very soon after writing you had identefred, and I signet the Carelepness that pal-you to the mouble of writing. I had never seen L'Insulca and The ideal I had formed of it was so irroneous That had not referred to its description. It Seems so different from the other species that I have seen that I would have referred et to some other Jenno. By the nucleured cercular By will see that I take some niterest u aquatres. Certhont.

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special attention growelf I would thank gon to hand it to some one who might be unterested, I have a scheme (perhaps utopsian) ni Contemplation, which is, lo get fish culture Commissions lo add to their work the propagation and diffusion of aquatics. Eten I visitéa your Bottance Jardens na 1876 but I do not remember seeing any Collection of aquatics, I suppose however you are growing a full line of then. 203 Mough. MISSOURI BOTANICAL GARDEN GEORGE ENGELMANN PAPERS

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